

SunForte PM3I8B0I

Mono-Crystalline
Photovoltaic Module

20%
EFF.

315W
327W

Power Range
315 ~ 327 Wp



Highly Strengthened Design

Module complies with advanced loading tests to meet 5400 Pa loading requirements



Back Contact cells

No string in the front side enhances light conversion space



BenQ
Solar

SunForte PM3 I8B01 (315~327Wp)

Electrical Data

Typ. Nominal Power P_N	315 W	318 W	320 W	325 W	327 W
Typ. Module Efficiency	19.3%	19.5%	19.6%	19.9%	20.1%
Typ. Nominal Voltage V_{mp} (V)	54.7	54.7	54.7	54.7	54.7
Typ. Nominal Current I_{mp} (A)	5.76	5.82	5.86	5.94	5.98
Typ. Open Circuit Voltage V_{oc} (V)	64.6	64.7	64.8	64.9	64.9
Typ. Short Circuit Current I_{sc} (A)	6.14	6.20	6.27	6.39	6.46
Maximum Tolerance of P_N	0 / +3%				

- Above data are the effective measurement at Standard Test Conditions (STC)
- STC: irradiance 1000 W/m², spectral distribution AM 1.5, temperature 25 ± 2 °C, in accordance with EN 60904-3
- The given electrical data are nominal values which account for basic measurements and manufacturing tolerances of ±10%, with the exception of P_N . The classifications is performed according to P_N

Temperature Coefficient

NOCT	45 ± 2 °C
Typ. Temperature Coefficient of P_N	-0.38 % / K
Typ. Temperature Coefficient of V_{oc}	-0.27 % / K
Temperature Coefficient of I_{sc}	0.06 % / K

- NOCT: Normal Operation Cell Temperature, measuring conditions: irradiance 800 W/m², AM 1.5, air temperature 20 °C, wind speed 1 m/s

Mechanical Characteristics

Dimensions (L x W x H)	1559 x 1046 x 46 mm (61.38 x 41.18 x 1.81 in)
Weight	18.6 kg (41.0 lbs)
Front Glass	High transmission tempered glass with AR-Tech, 3.2 mm (0.13 in)
Cell	96 high efficiency back contact cells, 125 x 125 mm (5 x 5 in)
Back Sheet	Composite film
Frame	Anodized aluminum frame
Junction Box	IP-65 rated with 3 bypass diodes
Cables	Length: each 1.0 m (39.37 in)
Connector Type	MC4/MC4 compatible

Operating Conditions

Operating Temperature	-40 ~ +85 °C
Ambient Temperature Range	-40 ~ +45 °C
Max. System Voltage IEC/UL	1000 V
Serial Fuse Rating	15A
Maximum Surface Load Capacity	Tested up to 5400 Pa according to IEC 61215 (advanced test)

Warranties and Certifications

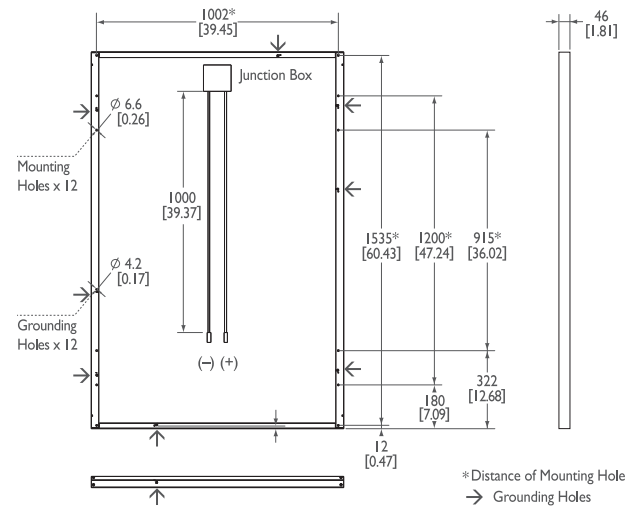
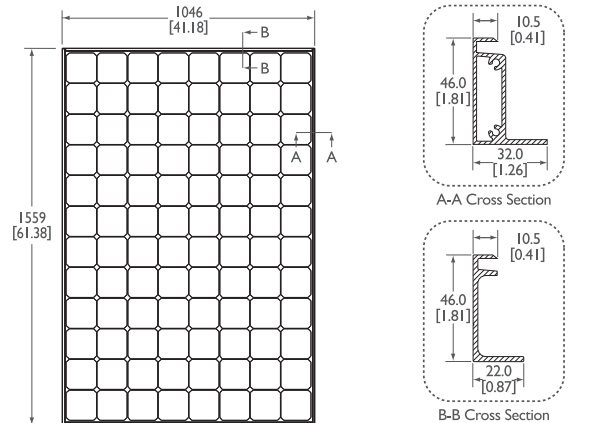
Product Warranty	10 years for material and workmanship
Performance Guarantee	Guaranteed output of 90% for 10 years and 80% for 25 years
Certifications	According to IEC 61215 and IEC 61730 guidelines *

- * Please confirm other certifications with official dealers

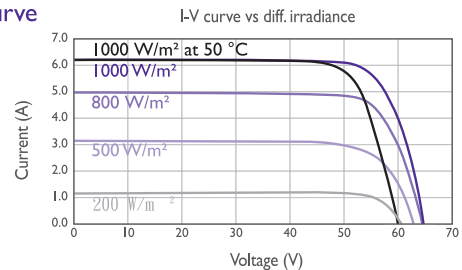
Packing configuration

Container	20' GP	40' GP	40' HQ
Pieces per pallet	20	20	20
Pallets per container	6	14	28
Pieces per container	120	280	560

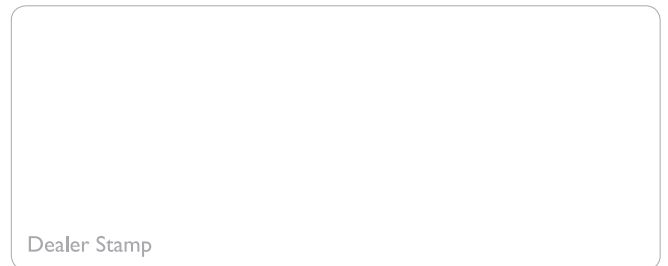
Dimensions mm [inch]



I-V Curve



Current/voltage characteristics with dependence on irradiance and module temperature.



* All data subject to change without prior notice.
Please consult our official dealers for more information.

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